

# LAB ASSIGNMENTS

## Object-Oriented Programming with C++ (CSE 3943)



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## Lab Assignment-1

### 1. Programming Exercises on C++

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- 1.1 WAP to create an enum (Day) containing 7 day names as its attributes. Prompt the user to enter a day number as int type. Assign this day number to a variable of enum Day. Using switch display the corresponding day name of the given day number. Pass the variable of Day in switch and make the cases as attributes of Day.
- 1.2 Write a function using reference variables as arguments to swap the values of a pair of integers.
- 1.3 Write a function that creates a vector of user given size M using new operator.
- 1.4 Write a program to read a matrix of size m\*n from the keyboard using new operator.
- 1.5 Write a program to read a matrix of size m\*n from the keyboard and display the same on the screen using function.
- 1.6 Rewrite the Problem no. 1.5 to make the row parameter of the matrix as a default argument.
- 1.7 Write a macro that obtains the largest of the three numbers.
- 1.8 Write a function power() to raise a number m to power n. The function takes a double value for m and int value for n and returns the result correctly. Use a default value of 2 for n to make the function to calculate the squares when this argument is omitted. Write a main that gets the values of m and n from the user to test the function.
- 1.9 Write a function that performs the same operation as that of Problem no. 1.8 but takes an int value for m. Both the functions should have the same name. Write a main that calls both the functions. Use the concept of function overloading.